Summer Math Packet

Manchester Public Schools

Given to Fourth Graders in June Going to Fifth Grade

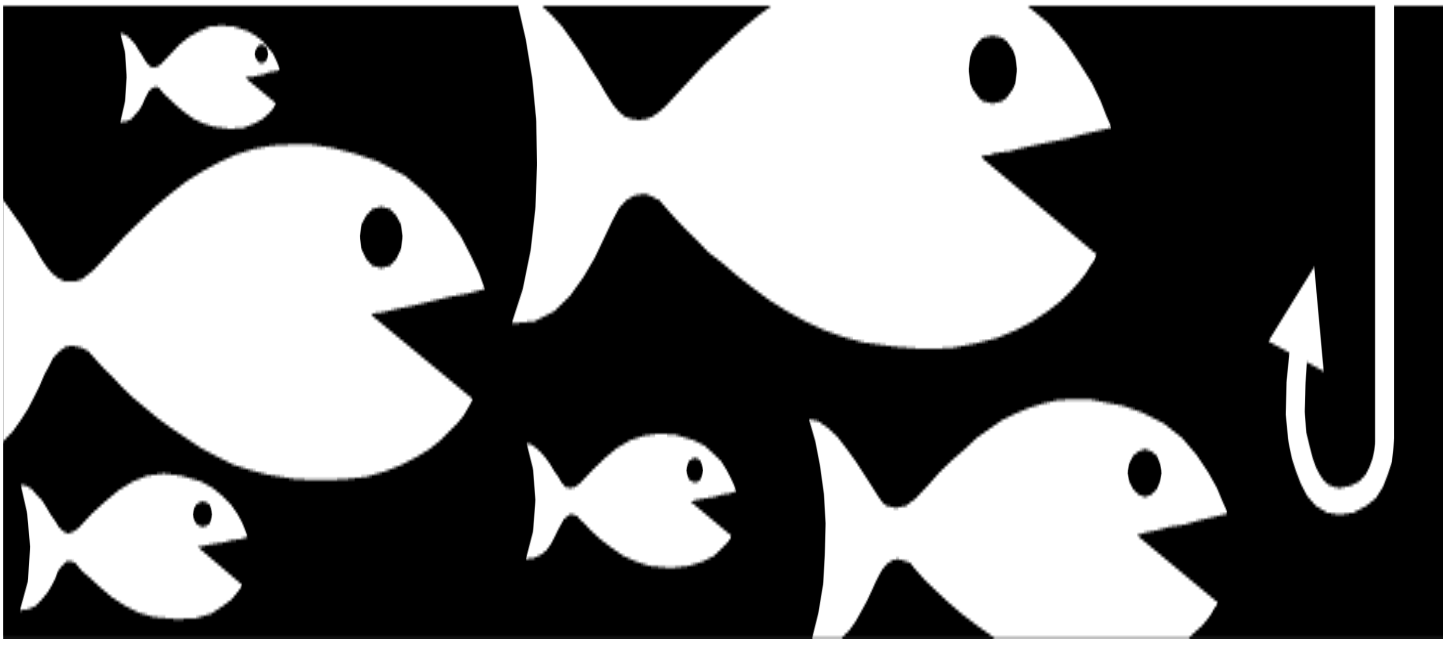
2016

Name_____

School_____

_____

(Parent Signature)



Updated: Spring 2013

Standard 4.OA Operations and Algebraic Thinking

1. Bailey is seven years old. Her father is six times older. How old is Bailey's dad?

a) 49 b) 13 c) 36 d) 42

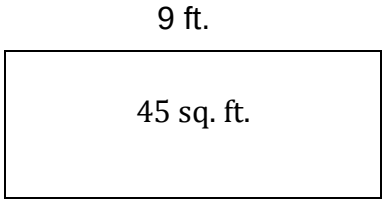
2. Noel is reading a book that has 126 pages. Kaitlin is reading a book that has three times as many pages as Noel's book. How many pages does Kaitlin's book have? Select all equations that represent this problem.

126 ÷ 3 = ____ 3 x ____ = 126 126 x 3 = _____

____ ÷ 3 = 126 _____ ÷ 126 = 3 126 ÷ _____ = 3

3. A sweatshirt costs $42. That is 6 times more than a t-shirt. How much does a t-shirt cost?

4. Dominic wants to build a fence around his garden. The garden requires 45 square feet of space. He has already built one side of the fence. What must be the length of the other dimension?



a) 5 feet b) 9 feet c) 6 feet d) 12 feet

5. Your school is collecting canned goods for a local shelter. The goal is to collect 200 cans of food. On the first day, Javier brings in 4 boxes with 6 cans in each box. Kate brings in 8 boxes with 8 cans in each box. How many canned goods still need to be collected?

a) 112 canned goods
b) 132 canned goods
c) 88 canned goods
d) 154 canned goods

Special thanks to school-based numeracy coaches who collaborated with district trainers to develop this packet in support of our students.

6. There are 135 cats in the animal shelter. If each crate can hold 20 cats, how many crates are needed?

a) 6 b) 7 c) 8 d) 5

7. What are the factors of 36? _____

48? _____

50? _____

8. Circle True or False:

a. 64 is a multiple of 8 True or False

b. 3 is a multiple of 18 True or False

c. 35 is a multiple of 5 True or False

d. 54 is a multiple of 9 and 6 True or False

e. 48 is a multiple of 7 True or False

9. What is the rule in the "IN and OUT" Table?

IN	OUT
1	1
2	4
3	9
4	16

Rule _____

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Standard 4NBT Number and Operations in Base Ten

10. Solve:

a. 276 + 1539 = _____ b. 4774 – 1435 = _____ c. 6084 + 582 = _____

d. 841 – 428 = _____ d. 2000 – 337 = _____ f. 10,000 – 6051 = _____

g. 10 x 76 = _____ h. 3693 x 4 = _____ i. 82 x 55 = _____

j. 450 ÷ 9 = _____ k. 96 ÷ 6 = _____ l. 420 ÷ 4 = _____

11. A 2nd grade teacher bought 7 new storage containers. She has 231 books. She wants to put the books in the boxes, so that each container has the same number of books. How many books will there be in each storage container?

a) 30 b) 43 c) 33 d) 22

12. There are 498 students participating in the "Hoops for Heart" fundraiser. They are put into teams of 6 for the event. How many teams get created?

a) 88 b) 73 c) 92 d) 83

13. Fill in the numbers in their correct spots to complete the area model for multiplication:

	20	6
30	600	
2		

26 X 32 = _____

Numbers: 8, 12, 40, 50, 180, 712, 802, 832 (you will not use all the numbers)

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Standard 4NF: Number and Operation- Fractions

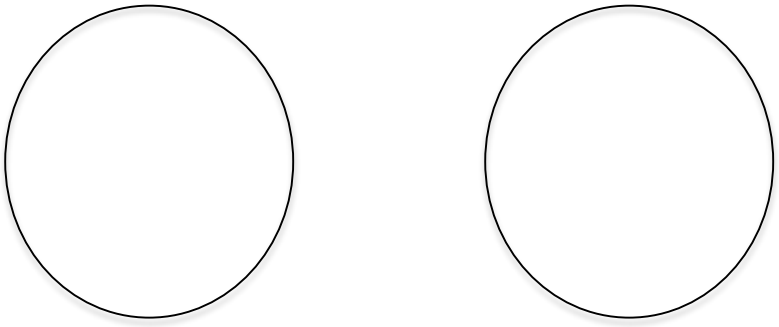
14. The figure below is a representation of the fraction 4/6.

Shade in each figure to show a representation that is equal to 4/6 and write a fraction for each shaded fraction.

_____

_____

15. Mrs. Smith baked two pies for Thanksgiving. The first pie has ½ of it left. The second pie has 5/8 left. Draw a picture to show which pie has more left.



Which pie has more left? How do you know?

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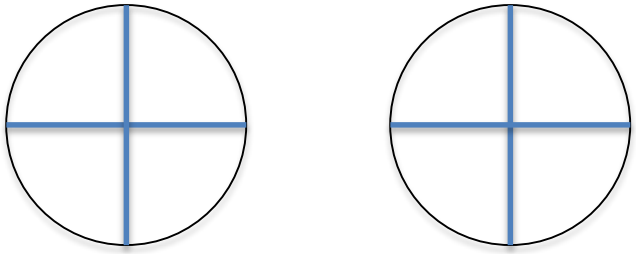
16. Bryan is hosting a barbeque and wants to make burgers for all of his guests. Each burger will need ¼ pound of ground beef. If Bryan is inviting 8 people to his barbeque, how many pounds of ground beef will he need? Show your work by using a picture model or a number sentence. Use these circles to help you.



Answer: _____

17. Complete the following with an appropriate number that makes the sentence true:

1/5 = 3/ ½ = /8 2/3 = /9 4/12 = 1/

18. Compare each pair of fractions by inserting a <, > or =.

$\frac{6}{9}$ $\frac{2}{9}$ $\frac{1}{2}$ $\frac{50}{100}$ $\frac{2}{5}$ $\frac{2}{6}$ $\frac{8}{8}$ $\frac{5}{5}$

19. Mercedes bought 15 cherries and ate 1/3 of them. Scott bought 8 cherries and ate ¼ of them. Which statement is true?

a. Mercedes and Scott ate the same number of cherries
b. Scott ate 5 cherries and Mercedes ate 2 cherries.
c. Mercedes ate 5 cherries and Scott ate 2 cherries.
d. Mercedes had 8 cherries remaining.

20. Write each fraction as a decimal:

$\frac{1}{2}$ _____ $\frac{50}{100}$ _____ $\frac{7}{10}$ _____ $\frac{23}{100}$ _____

21. Write each decimal as a fraction:

0.13 _____ 0.4 _____ 0.06 _____ 0.1 _____

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22. Use <, > or = to compare each decimal pair:

0.26 _____ 0.54 0.2 _____ 0.20 0.5 _____0.25 0.3 _____0.7

23. Circle the equations that are true:

4/10 = 0.04 17/100 = 0.17 9/100 = 0.09 6/100 = 0.60

24. Which have sums equal to 91/100? Find the answer for each one. Circle the ones that are equal to 91/100.

a. 6/10 + 31/100 = _____

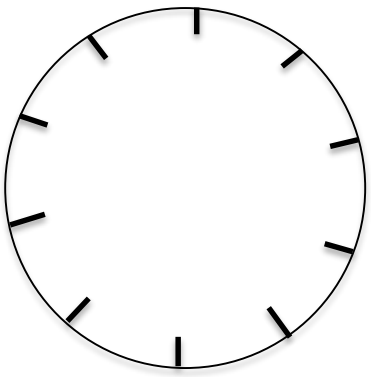
b. 7/10 + 19/100 + 2/10 = _____

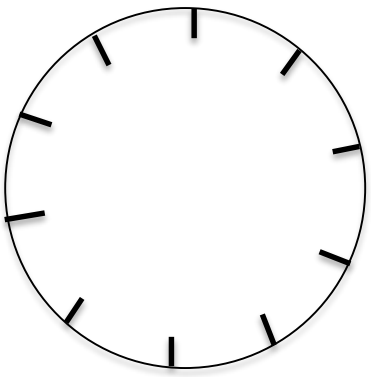
c. 17/100 + 3/10 + 44/100 = _____

d. 33/100 + 28/100 + 4/10 = _____

e. 86/100 + 5/10 = _____

25. **Represent 4 tenths and 40 hundredths on the models below**. (Be sure to add lines to show hundredths on one of the circles to prove your answer.)





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26. Draw a number line or model to show that 0.7 > 0.4.

27. Mia used a 12 x 12 grid to represent 1 and Jayden used a 10 x 10 grid to represent 1. Each child shaded grid squares to show ¼.

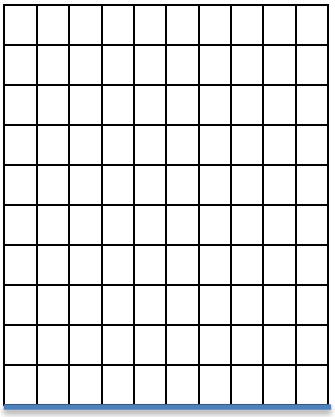
1 . How many grid squares did Mia shade? _____

2. How many grid squares did Jayden shade? _____

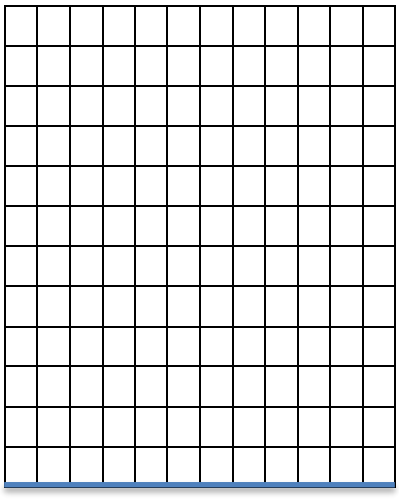
3. Why did they need to shade different numbers of grid squares?_____

_____

Jayden's grid



Mia's grid



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Standard 4G - Geometry

28.

a. Draw a pair of parallel lines.

b. Give a definition of what makes them parallel:

29.

a. Draw an example of perpendicular lines.

b. Give a definition of what makes them perpendicular:

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30. Write the name of each of these shapes:

_____ _____ _____

_____ _____

a. Which shapes from above have at least one pair of parallel sides?

b. Which shapes from above have at least one pair of perpendicular lines?

c. Which shapes from above have ***no*** parallel or perpendicular lines?

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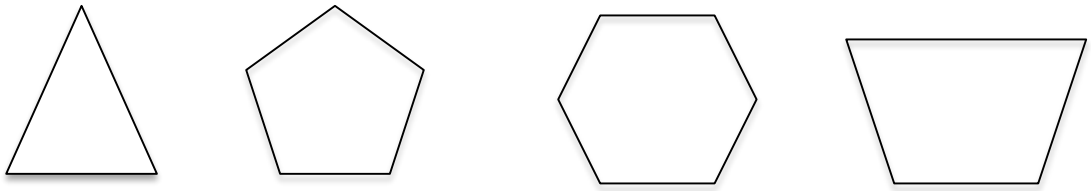
31. How many lines of symmetry do these shapes have? Draw the line(s) of symmetry.



_____ _____ _____ _____

Standard 4.MD Measurement and Data

32. Fill in the conversion table with the missing measurements:

feet ft.	Inches in.		Ounces oz.	Pounds lbs.		Kilograms kg	Grams g
1			16			1	
	24		32				2000
3				3			3000
	48			4		4	

33. Maya gets out of school at 3:00 P.M. It takes her 25 minutes to get home, 10 minutes to eat her snack, and 45 minutes to do her homework. How much free time does she have *before* she has dinner at 5:00 P.M.?

a) 50 minutes b) 1 hr. 5 min. c) 40 minutes d) 15 minutes

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